SNEGIREV, Yu.D., kand. tekhn. nauk

Reasons causing the failure of concrete linings in mine shafts. Shakht. stroi. 8 no.2:8-9 F '64. (MIRA 17:3)

l. Shakhtinskiy filial Novocherkasskogo politekhnicheskogo instituta imeni Sergo Ordzhonikidze.

SNEGIREV. Yu.D.; VYAL'TSEV, M.M.; LUNOV, E.P.

Investigating the durability of monolithic concrete shaft lining in mines of the Rostovugel' Combine. Trudy NPI 140:29-43 '63. (MIRA 17:9)

SNEGIREV, Yu.D., kand, takhu. muk; MMOV, E.P., kand, tekhu. nauk; VYAL\*TSEV, M.M., inzh.

Investigating conditions of shaft lining with reinforced-concrete tubing in coal mines of the Rostovugol' Combine. Shakht. stroi. 9 no.10:12-15 0 %55. (MIRA 18:9)

1. Shakhtinskiy fillal Novocherkasskogo politekhnicheskogo instituta.

是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就 第一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就

SNEGIREVA, G.K., inzh.

Let's expedite the introduction of new equipment for the preparation of asbestos cement. Stroi. mat. 7 no.3:11-13 Mr '61. (MIRA 14:4) (Asbestos cement)

SNEGIREVA, I.

Inquiry office of "Grazhdanskaia Aviatsiia." Grazhd. av.
20 no.9:28 S '63.

(Airlines—Employees)

<u>L 18959-63</u>

EPR/EWP(j)/EPF(c)/EWT(m)/BDS

AFFTC/ASD

Ps-4/Pc-4/Pr-4

RM/WW/MAY

ACCESSION NR: AP3006537

\$/0191/63/000/009/0030/0033

31

AUTHORS: Trostyanskaya, Ye. B.; Kazanskiy, Yu. N.; Skorova, A. V.; Poymanov, A. M.; Snegireva, I. A.

TITLE: Determining the quality of glass cloth and glass roving sizing

SOURCE: Plasticheskiye massy\*, no. 9, 1963, 30-33

TOPIC TAGS: glass cloth sizing, glass, glass roving sizing, fiberglass water resistance

ABSTRACT: A method was worked out for evaluating AGM-3 sizing and conditions were recommended for sizing FN fiberglass with AGM-3. The amine number of the sizing film was determined by titration with HCl, readings being taken in the first couple minutes of the titration. The continuity of the sizing film was determined by electrically measuring the amount of moisture that would evaporate through the film, using an IDN-140-meter ALM2 voltmeter and KVT1/EN self-recording potentiometer. Originart. has: 7 figures, 1 equation.

Card

1/2

SNIG ROVA, X, D

USSR / Zooparasitology - Acarina and insect-vectors of G disease pathogens

Abs Jour: Ref Zhur - Biol., No 7, 1958, 29129

Author : Dubinin, V.B., Snegireva, K.B.

Inst : Not given

Title: Turbinoptes Strandtwanni Boyd Acarina and
Their Structural Characteristics. (Kleshchi
Turbinoptes strandtwanni Boyd i osobennosti ikh

stroeniya).

Orig Pub: Zool. zh., 1957, 36, No 2, 204-213

Abstract: A comparative-anatomical study of feather

acarina T. strandtmanni (subfamily Myialgesinae), found in the nasal cavity of common sea-gulls (Larus ridibundus), and characteristics of

their biology and structure, which were developed

Card 1/2

15

MIRITSKAYA, R.L.; SNIGIREVA, O.V.; SAMSONOVA, N.F.; PUZEY, O.V.

Distribution of opisthorchiasis in Chernigov Province. Med.paraz. i paraz.bol. 27 no.1:110 Ja-F '58. (MIRA 11:4)

1. Iz parazitologicheskogo otdela Chernigovskoy oblastnoy sanitarnoepidemiologicheskoy stantsii. (CHERNIGOV PROVINCE--DISTOMATOSIS)

GUREVICH, B.L.; SNEGIREVA, O.V.; SHALYA, A.A.

Gas potential of the Grimean Steppes and Sivash region. Gaz.prom.
4 no.8:3-8 Ag '59.
(Crimea--Gas, Matural--Geology)

(Grimea--Gas, Matural--Geology)

KOTEL'NIKOV, D.D.; KOSHELEVA, L.A.; SNEGIREVA, O.V.

Composition and genesis of clay minerals in sediments of the middle and upper Jurassic of the Sudak-Koktebel' folded zone in the eastern Crimea. Trudy VNIIGAZ no.7:48-58 '59.

(Crimea--Clay)

Age of volcanic rocks in wells drilled in the Aleksandrovskaya area (northern border of the western Kuban trough). Trudy VNIIGAZ no.10:104-108 '60. (MIRA 13:10) (Kuban--Rocks, Igneous)

DOBROVOL'SKAYA, T.I.; SNEGIREVA, O.V.

THE PROPERTY OF THE PROPERTY O

Conglomerates of the Bitak series of the Crimea. Dokl. AN SSSR 143 no.6:1417-1420 Ap '62. (MIRA 15:4)

1. Institut mineral'nykh resursov AN USSR i Vsesoyuznyy nauchno-issledovatel'skiy institut prirodnogo gaza. Predstavleno akademikom V.S.Sobolevym.

(Crimea—Conglomerate)

TO THE STATE OF TH

VASIL'YEV, V.G.; YEROFEYEV, N.S.; ANDREYEVA, I.B.; YELIN, N.D.;
YELOVNIKOV, S.I.; KCLOTUSHKINA, A.F.: L'VOV, M.S.:
MATVIYEVSKAYA, N.D.; MIRONCHEV, Yu.P.; MODELEVSKIY, M.Sh.;
MURATOVA, A.T.; MUSTAFINOV, R.A.; ROZHKOV, E.L.; SNEGIREVA,
O.V.; STAROSEL'SKIY, V.I.; SYTNIK, N.A.; NEVEL'SHTEYN, V.I.,
Ved. red.; YASHCHURZHINSKAYA, A.B., tekhn. red.

**对自己的形式的证明的证明的对于1000万里,但是**不是有关于1000万里,1000万里

[Prospecting for gas fields in the U.S.S.R., during four years of the seven-year plant] Poiski i razvedka gazovykh mestorozhdenii v SSSR za chetyre goda semiletki. Leningrad, Gostoptekhizdat, 1963. 171 p. (MIRA 16:8) (Gas, Natural-Geology)

SMEGREVA, O.V.; KAMENETSKIY, A.Ye.

Basic characteristics of geological development in the Crimea.

Trudy VNIIGAZ no. 25:14-30 '65. (MIRA 18:12)

1.	
1,	LYUBARSKIY, K. A., SNEGIREVA, R. V.
2.	U33R (600)
4.	Meteors
7.	Photographic observations of meteors carried out in Simferopol in the summer of 1952. K. A. Lyubarskiy, R. V. Snegireva. Astron. tsir., No. 131, 1952.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651810008-1"

1953. Unclassified.

9. Monthly List of Russian Accessions, Library of Congress, May

是**在这种大型,我们是是这种,我们们就是我们的,我们就是不是我们的,我们**是我们的,我们就是这个人,让一个人,我们就是这些人,我们就是我们的这种,但是可以不会,也是是我们

- 1. A. YA. WITTEN, T. D. MANIEREVA, P. A. TESNER
- 2. USSR (600)
- 4. Carbohydrates in the Body
- 7. Use of carbohydrates in the brain during its various physiological and pathological states. Nauch. biul. Len. un. no. 28. 1951.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

Viavestigation of the catalogue and the company of the catalogue and the catalogue a

- 1. ROVINCVICH, Ye. Ya.: SNEGIREVA, T. D.: TESNER, F. A.
- 2. USSR (600)
- 4. Cracking Frocess
- 7. Specific catalytic activity of carbon. Dokl.AN SSSR, 88, no. 1, 1953.

nemerantura in krita delika in krita in krita in krita delika krita delika in krita in krita in krita in krita

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

TESNER, P.A.; SINGIREVA, T.D.

Effect of atmosp jeric conditions on the production of furnace black. Gaz.pron no.2:33-37 F 156. (MIRA 10:1)

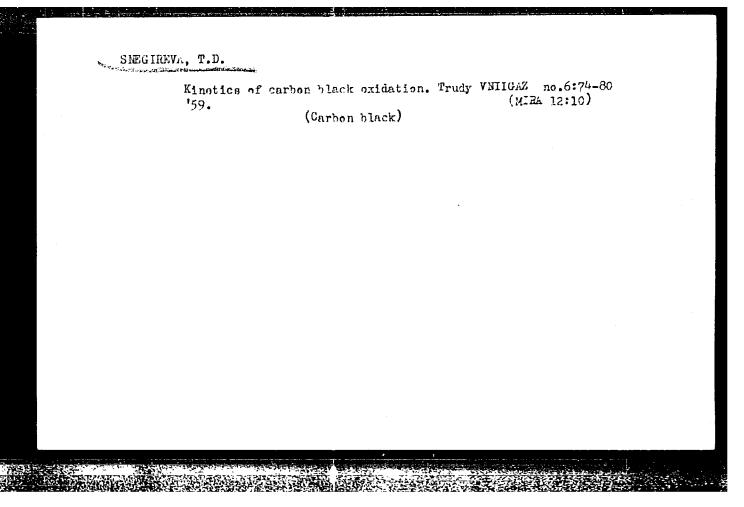
(Carbon black)

Thermodynamic analysis of the effect of atmospheric conditions of the production of furnece black Trade Particle and Conditions of

En sur ser pre. Til

the production of furnace black. Trudy VNIIGAZ no.1:86-99 '57.

(Carbon black) (Atmospheric temperature) (MIRI 11:1)



SNEGIREVA, T.D.; TESNER, P.A.

Kinetics of carbon black oxidation. Trudy VNIIGAZ no.12:91-102
'61. (Carbon black) (Oxidation)

SNEGIREVA, V.V.; TAREYEV, Ye.M., professor, deystvitel nyy chlen Akademii meditsinskikh nauk SSSR, zaveduyushchiy.

On the occasion of the 20th anniversary of K.M.Pavlinov's death. Sov.med. 17 no.6:44-45 Je '53. (MLRA 6:6)

1. Akademiya meditsinskikh nauk SSSR (for Tareyev). 2. Kafedra propedevticheskoy i gospital'noy terapii sanitarno-gigiyenicheskogo fakul'teta Moskovskogo ordena Lenina meditsinskogo instituta (for Snegireva and Tareyev).

(Pavlinov, Konstantin Mikhailovich, 1845-1933)

ALEKSEYEVA, O.G.; BIBKOVA, A.F.; VYALOVA, N.A.; IVANOV, A.Ye.; KRAYEVSKIY, N.A.; KURSHAKOV, N.A.; PARAMONOVA, N.V.; PETRUSHKOV, V.N.; SNEGIREVA, V.V.; STUDENIKINA, L.A.; SHTUKKENBERG, Yu.M.; SHULYATIKOVA, A.Ya.; LANDAU-TYLKINA, S.P., red.; YAKOVIEVA, N.A., tekhn. red.

[A case of acute radiation sickness in man]Sluchai ostroi luchevoi bolezni u cheloveka. Moskva, Medgiz, 1962. 149 p. (MIRA 16:2)

1. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Kurashkov ).

(RADIATION SICKNESS)

PHASE I BOOK EXPLOITATION

PHASE I BOOK EXPLOITATION

Alekseyeva, O. d., A. P. Biblkova, N. A. Vyalova, A. Ye. Ivanov, N. A. Krayevskiy, N. A. Kurshakov, N. V. Paranonova, V. M. Petushkov, Shulyatikova, L. A. Studenikina, Yui. M. Shtukkenberg, and A. Ya.

Sluchay ostroy luchevoy bolezni u cheloveka (A Case of Acute Radiaties printed.

Bischess in Man)

Moscow, Medgis, 1962. 149 p. 10,000 coptes printed.

Ed. (Title page): N. A. Kurshakov, Corresponding Member Academy of Ed.: N. A. Yakovlevy.

PURPOSE: This monograph is intended for physicians and biologists.

COVERAGE: This book describes an actual case of acute radiation sickchanges in the severe form. It describes in detail clinical symptoms, system, and the distribution of depth doses and energy absorption.

Card 1/3

SNESON, K.

PHASE I BOOK EXPLOITATION

SOV/5975

International Institute of Welding

XII kongress Mezhdunarodnogo instituta svarki, 29 iyunya - 5 iyulya 1959 v g. Opatii (Twelfth Annual Assembly of the International Institute of Welding, Opatija, June 29 - July 5, 1959) Moscow, Mashgiz, 1961. 359 p. 3000 copies printed.

Sponsoring Agency: Natsional'nyy komitet SSSR po svarke.

Ed. (Title page): G. A. Maslov, Docent; Translated from English, French, and Serbo-Croatian by N. S. Aborenkova, K. N. Belyayev, E. P. Bogacheva, L. A. Borisova, K. V. Zvegintseva, V. S. Minavichev, and M. M. Shelechnik; Managing Ed. for Literature on the Hot-Working of Metals: S. Ya. Golovin, Engineer.

PURPOSE: This collection of articles is intended for welding specialists and the technical personnel of various production and repair shops.

Card 1/

Twelfth Annual Assembly (Cont.)

SOV/5975

COVERAGE: The collection contains abridged reports presented and discussed at the Twelfth Annual Assembly of the International Institute of Welding. Reports deal with problems of welding and related processes used in repair work, repair techniques, and the problems arising in connection with the nature of the base and filler materials. Examples of repairing various parts are given, and the organization of repair operations in workshops and under field conditions is discussed. Economic aspects of welding and related processes as used in repair work are analyzed. No personalities are mentioned. There are no references.

TABLE OF CONTENTS: [Only Soviet and Soviet-bloc reports are given here]

Foreword

J

29

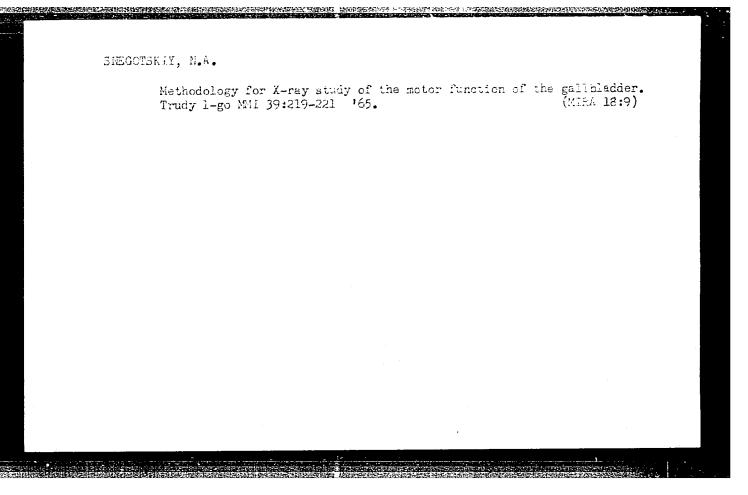
PART I. THE STUDY OF REPAIR-WORK TECHNIQUES (PROCESSES, METHODS, PREPARATION, HEATING, AND OTHER TYPES OF PROCESSING CONTROL)

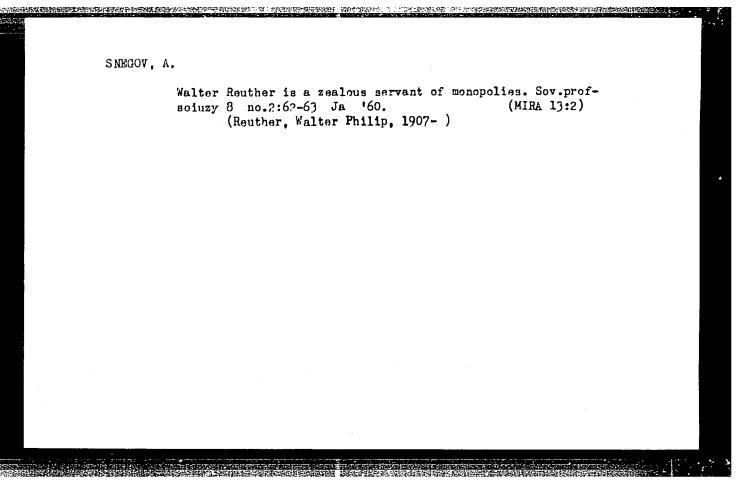
36

Myuntsner, L. (Czechoslovakia). Welding of Broken Crankshafts

Card 2/9

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	Twelfth Annual Assembly (Cont.)  Tesar, A., and Yu. Lombardini (Czechoslovakia). Isothermal	42	4 4 2
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SHESTAKOV, V.A., kand.tekhn.nauk; SNEGOV, A.I., gornyy inzh.; BONDAREV, K.D., gornyy inzh.; ALIYEV, A.A., gornyy inzh.; ACZAMOV, K.Sh., gornyy inzh.; ABRAMOV, N.P.

Using deep boreholes for breaking ore in the Sumsar Mine. Gor. zhur. no.12:8-10 D '62. (MIRA 15:11)

- 1. Institut gornogo dela i metallurgii AN Kirgizskoy SSR (for Shestakov, Snegov, Bondarev, Aliyev, Agzamov).
- 2. Sumsarskiy rudnik (for Abramov).
  (Sumsar region-Boring-Labor productivity)
  (Blasting)

SNERGY, ..

Snegov, S. - "Cottong picking by machine", (Kolkhoz No. 2 imeni Frunce, Yangi-Yul'skiy Rayon, Tashkent Oblast, outline), Zvesda Yostoka, 1947, No. 2, p. 94-109.

SO: t-hll0, 17 July 53, (Latopis 'Zhurnal 'nykh Statey, No. 19, 1949).

SANNIKOV, M.1., kand. selikhoz. nauk spetsialist-ovtsevod;
SNEGOV, V.V., zasl. zoctekhnik RSFSR, Laureat
Gosudarstvennoy premii, OKULICHEV, G.A., kand. selikhoz. nauk, retsenzent; VASILIYEV, N.A., kand. selikhoz. nauk, retsenzent; BYRDINA. A.S., red.

[Production of thin-fiber wool at the "Soviet Fleece"
Breeding Station] Proizvedstvo tonkoi shersti v plemzavode "Sovetskoe runo." Moskva, Kolos, 1965. 174 p.
(MIRA 18:8)

l. Plavnyy spetsialist Glavnogo upravleniya nauki, propiganiy i vnedreniya peredovogo opyta Ministerstva sel'skogo khozyaystva SSSR (for Okulichev), 2. Glavnyy spetsialist Glavnogo upravleniya po plemennomu delu Ministerstva sel'skogo khozyaystva SSSR (for Vasil'yev).

T 34833-65. EPA(s)-2/EWT(m)/EPE(c)/EEC-4/EPR/EWP(j)/T PC-4/PI-4/PS-4 WM/RM ACCESSION NR: AP5008538 S/0286/65/000/006/0052/0052

AUTHOR: Snegov, Yu. I.

TITLE: A method for manufacturing light guides from fiberglass. Class 32, No.

169216

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 6, 1965, 52

TOPIC TAGS: light pipe, fiberglass

ABSTRACT: This Author's Certificate introduces a method for manufacturing light guides from fiberglass. The fibers are formed into a bundle and sintered and the bundle is then put into a glass envelope. Light guides with high amplification are produced by reheating the bundle of fibers after sintering and rolling it in the heater state between three symmetrically placed rollers. The Author's Certificate also covers a modification of this method in which the heated bundle is rolled between cleats.

ASSOCIATION: none

SUBMITTED: 22Nov63

ENCL: 00

SUB CODE: MT.IE, OP

Card 1/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-

CIA-RDP86-00513R001651810008-1"

VERESHCHAGIN, L.F.; SNEGOVA, A.D.; LITVIN, Ye.F.

Effect of high pressure on the function of molecular weight distribution of polystyrene. Dokl.AN SSSR 95 no.3:563-565 Mr '54. (MLRA 7:3)

1. Institut organicheskoy khimii im. N.D.Zelinskogo Akademii nauk SSSR. 2. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova. Predstavleno akademikom A.N.Frumkinym.

(Molecular weights) (Polystyrene)

SHEGOVA, A.D.

USSR/Chemistry - Organic chemistry

Card 1/2

Pub. 22 - 20/47

Authors

Petrov, A. D., Memb., Corresp. of Acad of Sc. USSR.; Ponomarenko, V. A.;

Mkhitaryan, L. L.; and Snegova, A. D.

Title

Synthesis and properties of monochloro derivatives of ethylsilane

chlorides.

Periodical

Dok. AN SSSR 100/6, 1107-1110, Feb 21, 1955

Abstract

The synthesis of numerous hitherto unknown compounds from monochloro derivatives of ethylsilane chlorides is reported. The high yield of monochloro derivatives observed during the chlorination of ethylsilane chlorides with chlorine indicates the photochemical chlorine chlorination is

no less suitable than the chlorination with sulfuryl chloride.

Institution:

Academy of Sciences USSR, The N. D. Zelinskiy Institute of Organ. Chem.

Submitted

August 18, 1954

Periodical:

Dok. AN SSSR 100/6, 1107-1110, Feb 21, 1955

APPROVED FOR RELEASE; 08/25/2000

CIA-RDP86-00513R001651810008-1"

Card 2/2

Abstract

The formation of small amounts of alpha-chloroethyldichlorosilane with highly reactive Si-H bond was observed during the chlorination of ethyldichlorosilane (Cl2HSiC2H5). Ten references: 3 USSR, 5 USA, 1 English and 1 German (1937-1954). Table; graphs.

Signification of

USSR/Physical Chemistry - Molecule, Chemical Bond.

B-4

Abs Jour

: Referat Zhur - Khimiya, No 1, 1958, 140

Author

: M.I. Batuyev, V.A. Ponomarenko, A.D. Matveyeva, A.D.

Snegova.

Inst

: Academy of Sciences of USSR

Title

: Cis-Trans-Isomerism of 1,2-Di-(Trichlorsily1) Ethylene.

Orig Pub

: Izv. AN SSSR, Otd. khim. n., 1956, Noll, 1420-1421

Abstract

: Cis- and trans-isomers of 1.2-di--(trichlorsily1) ethylene (I) were detected by the spectrum of multiple scattering. The range width (43 cm<sup>-1</sup>) between the determined frequencies of double links C C of the cis- and trans-isomers of I, unusual as compared with cis- and

trans-isomers of other compounds, was noted.

Card 1/1

#### CIA-RDP86-00513R001651810008-1 "APPROVED FOR RELEASE: 08/25/2000

USSR/Physical Chemistry - Molecule, Chemical Bond.

B-4

O NOT SELECTED IN CONTROL OF CONT

Abs Jour: Referat. Zhurnal Khimiya, No 3, 1958, 6979.

Author : M.I. Batuyev, V.A. Ponomarenko, A.D. Matveyeva, A.D. Snegova.

: Academy of Sciences of USSR. Inst

: Optical Investigation of Intermolecular Interaction Si...Cl. Title

Orig Pub: Izv. AN SSSR. Otd. khim. n., 1957, No 4, 515-516.

Abstract: Blurring of lines referred to the valence vibrations C-C1(722 cm<sup>-1</sup>) and Si-Cl (448 cm<sup>-1</sup>) was observed in the Raman spectrum of the silico-organic /3 -halide Cl<sub>3</sub>SiCH<sub>2</sub>CH<sub>2</sub>Cl. This blurring disappears in cyclohexane solution. Also, it is not observed in compounds of the Cl3Si-CH2CH2CH2Cl, Cl3Si-CH2-CH2-SiCl3, Cl\_3Si-CH\_2CH\_2CH\_3 and other types. This phenomenon is explained by the existence of molecular associations caused by an interaction analogous to the hydrogen bond. An easy ethylene and SiCl4 formation is observed just in the case of the /3 -halide.

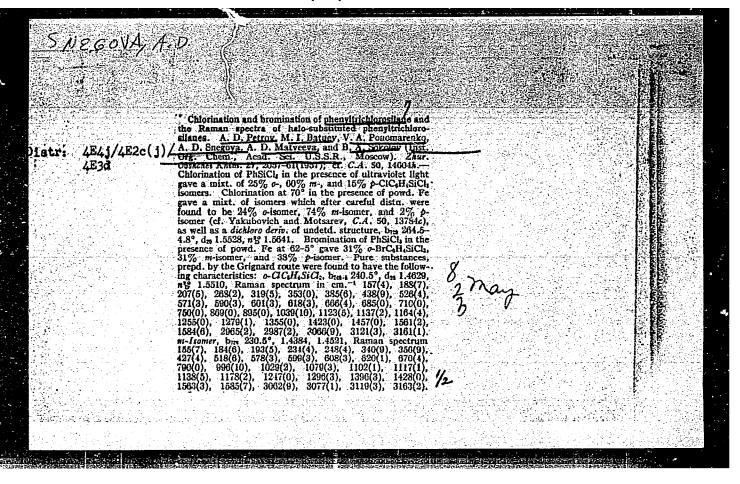
: 1/2 Card

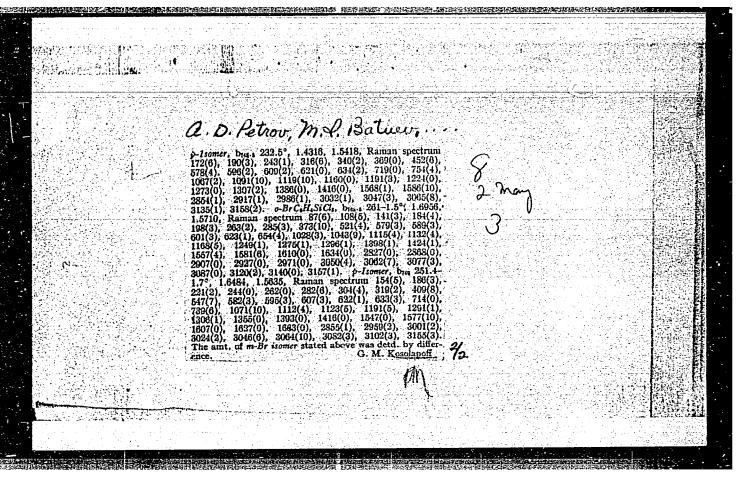
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APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651810008-1"

Card : 2/2

-23-



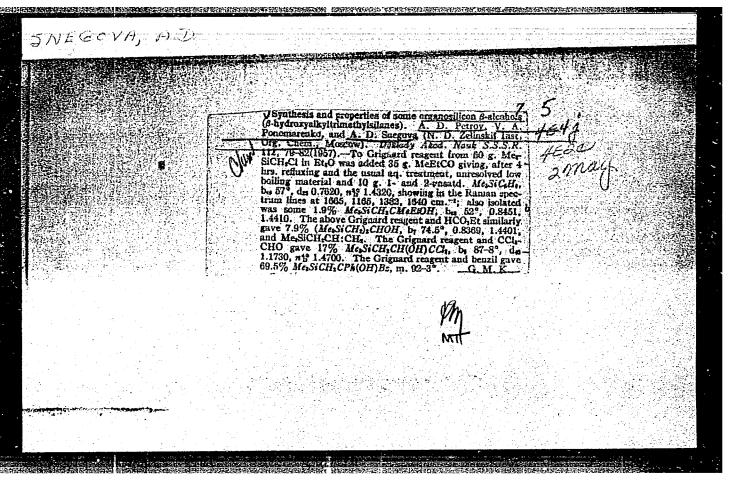


(MLRA 10:9)

PONOMARENKO, V.A.; SNEGOVA, A.D. Photochemical chlorination of ethylsilane fluorides. Orienting effect of fluorosilyl groups. Zhur. ob. khim. 27 no.8:2067-2073

> 1. Institut organicheskoy khimii Akademii nauk SSSR. (Fluorine organic compounds)

Ag 157.



**是一种企业的企业,但是一种企业的企业,不是一种企业的企业,但是一种企业的企业,企业的企业,企业的企业,企业的企业,企业的企业,企业的企业,企业企业,企业企业** 

SOV/62+58+8-13/23

AUTHORS: Batuyev, K. I., Ponomaranko, V. A., Matveyeva, A. D.,

Snegova, A. D.

TITLE: The Optical Investigation of the C - H Bond of Some Alkyl

Silane and Disilane Chlorides and Their Chlorine Derivatives as Related to the Properties of Their Chlorination (Cpticheskoye issledovaniye svyazi C "H nekotorykh alkilsilan- i disilan-khloridev i ikh khlorproizvodnykh v svyazi s osobennostyami ikh

khlorirovaniya)

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye khimicheskikh nauk,

1958 Nr 8, pp. 996-1003 (USSR)

ABSTRACT: The chlorination of methyl silane and chloromethyl silane

chlorides with simultaneous irradiation was first carried cut by Krieble and Elliot (Krible and Elliot) and later on it was investigated in detail by Speier (Speyer, Refs 2-4). Then some phenomena of specifically anomalous character were found. In the present paper the authors report on the result of their

investigation of the C - H bond as well as of some alkyl oflane and disilane chlorides. It turned out that along with the

Card 12 Increase in number of the chloring atoms in silizon and in the

SOV/62-59-8-13/22 The Optical Investigation of the C - H Bond of Some Alkyl Silane and  $Di \sim$ stiane Chlorides and Their Chlorine Derivatives as Related to the Properties of Their Chioriastica

> alkyl chains of the alkyl silane chlorides a regular increase of the effective electron density of the corresponding  ${\mathfrak S} \sim H$ bends takes place. The anomalies in the chlorination of methyl silane chloride and chloremethylsilane chloride found by other authors could not be proved by the authors. Perhaps the direction taken by the mentioned chlorination could be called an anomalous phenomenon. It is assumed that this direction is caused by spatial hindrances which complicate the while process. There are 7 tables and 8 references, 4 of which are Soviet.

ASSOCIATION: Institut goryuchikh iskopayemykh i Institut organicheskey khimii im. N. D. Zelinskogu Akademii nauk SSSR (Institute of Mineral Fuels and Institute of Organic Chemistry imeni N. D. Zelinskiy, AS USSR)

SUBMITTED:

January 23: 1997

Card 2/2

AUTHORS:

Poromanenko, V. A., Snegova, A. D.

TITLE:

Brief Communications. Synthesis of Organosilicon Monomers From Hexachlorocyclopentadiene and 5,5-

Difluorotetrachlorocyclopentadiene

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1960, Nr 1, pp 135-138 (USSE)

807 60-60-1-08: 47

ABSTRACT:

Preparation of organosilicon monomers (see Table 3) from hexachlorocyclopentadiene (I) and 5,5 difluorotetrachlorocyclopentadiene (II) by Diels-Alder reaction was studied. It was found that II reacts more readily than I, with vinyi- and allyichlorositanes in the Diels-Alder reaction, particularly when the sifteen is bound to hydrogen. There is a difference between their

experimentally determined and calculated molar refractions for the compounds obtained [see Table 3]. Using the experimental data, more accurate group refractive indexes were calculated for the bonds shown in Table 1.

Sard 1.8

Brist Communications. Synthesis of Organosiliero Monomers From Hexaphloropyclopenta diene and 5,5 Difluorotetrachloropyclopenta-diene

108.062 1**3**07.162.160 (1.1287.37

The starting compounds and the conditions of reaction are shown in Table.2. The new compounds obtained and their characteristics are given in Table 3. There are 3 tables; and 8 references, 4 U.S., 2 U.K., 1 German, 1 Soviet. The 5 most recent U.S. and U.K. references are: 1. Goodman, R. M. Silverstein, 1. W. Gould, J. Organ. Chem. 22, 596 (1957), British Patent 776706 (1957), M. Kleiman, U.S. Patent 2697089 (1954); C. W. Roberts, Chem. and Ind., 111 (1958); E. I. McBee, D. K. Smith, H. E. Ungnade, J. Am. Chem. Soc., 77, 387 (1955).

ASSOCIATION.

N. D. Zelinskiy Institute of Organic Chemistry, Akademy of Sciences USSR (Institut organicheskoy knimil im. N. D. Zelinskogo Akademil nauk SSSR)

SUBMITTED:

June 15, 1959

Card 2/9

Key to Table 1. (a) Nr. determined experimental culated from refraction	Hy; (4) group refraction for the bonds.	tion, cal-
	e se constituir de la c	
	, in	

760d2, 80V/62-00-1-28/37

Key to Table 2. (a) Mrs; (b) starting products; (c) diene; (d) in g; (e) dienophile; (f) reaction temperature in  $^\circ$  C; (g) reaction time in hr; (h) weight of the products of reaction, in g; (1) yield of product of diene-synthesis; (\*) dospounds prepared by G. V. Odabashyan.

的复数数据数据数据的 电阻力数据 (15) 是是被使用的工程,我们们是不是不是不是不是不是不是不是不是不是不是不是不是不是,但不是不是不是这些人,但是是这些人, "

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· u.	(0:	· · · · · · ·	(0)	<u>(d)</u>	1 / * :	(7)	(h)	(d)	[ 1+)
1	G _ G	54,8	CH,CHSICI,	33,2	190	6.5	83.7	42,7	49,0
2	cı cı cı cı cı f.	3,5	CH, «CHSIC!,	2,4	130150	5,3	5.9	3,3	J6,0
3		54,8	CH <sub>2</sub> CHSICH	28,2	138199	3,25	79,4	59,8	72,4
4		2,7	ch, chsich,	1,6	105150	s	4,1		

Card 4/8

78082,	sov/62-60-1-28/37
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Table 2. (Cont'd.)

5	CI CI	4,1	CH <sub>1</sub> CHSICI <sub>1</sub> C <sub>1</sub> H <sub>1</sub>	2,3	146,5-202	4,2	6,0	3,2	50,0
6	CI CI	8,0	• cH,cHsici,	5,2	137—194	6.1	12,2		
7	ci F. ci	6,8	си,-си-сн,sісі,	3,5	123134	3,75	8,8	4,3	41,7
8	CI CI	5,4	CH,CHCH, SICH	3,2	128250	1,8	7.8	4,2	48,€
9	r.	3,5	CH. • CHCHSICI	1,6	72—152	8,0	4.7	2,9	56,8
	F.	1	1 4	l		1	1	t	

Card 5/8

78032. 30	r/60-60-1-28/37
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Key to Table 3. (a) Mrs; (b) compound; (e) bp in C (pressure in mm of Hg); (d) found; (e) calculated.

	i			į	MR		
(a,	(6)	(c)	л <sup>20</sup>	d <sub>4</sub> <sup>26</sup>	(d.)	(بو)	
1		138 (3)	1,3573	1,7362	80,56	81,26	
2		130 (10)	1,5141	1,7040	71,05	71,61	
3	J. J. J.	1.56157 (2)	1,5500	1,6457	80.47	81,63	

Card 6/8

	Table 3 (Cont	t'd)	780	82, S	)V/62-6	60-1-28/37
4	$CI = \begin{cases} CI & CII \\ CII & CIII \end{cases}$	130 (8)	1,5120	1,6041	71,25	72,01
5	$CI \xrightarrow{CI} UI - SI - CI_1$ $CI \xrightarrow{CI} UI_1 \xrightarrow{C} UI_2$	160 (7)	1,5520	1,6065	85,10	86,26
G	$C_1 = \begin{bmatrix} C_1 \\ C_1 \end{bmatrix} \begin{bmatrix} C_1 \\ C_1 \end{bmatrix}$	88 (16)	1,4326	1,4474	65,83	67,64

	Table 3 (Con	t'd)	78	082,	SOV/62	?-60-1-28/37
7	$CI \longrightarrow CI \longrightarrow H-CH_2-SiCI_2$ $CI \longrightarrow H$ $H-CH_2-SiCI_2$ $H$	152 (6)	1,5500	1,6370	80,53	81,89
8	CI F - P H <sub>1</sub> H-CH,SI-CI <sub>2</sub>	102—103(2,5)	1,5110	1,5982	71,40	72,27
9	CI   H   H   H   CI   CH   H   CH   CH	102—103(2,5)	1,5066	1,5355	67,12	68,01

#### CIA-RDP86-00513R001651810008-1 "APPROVED FOR RELEASE: 08/25/2000

SAUCONVA, A.D.

s/062/82013 000/02/06/012

5 3700

Ponomarenko, V. A., Snegova, A. D., Yegorov, Yu. P. AUTHORS:

TITLE:

Direction of the Chlorination and Bromination of Phenyl

Silanes Containing SiF3 and Si(CH3)3 Groups

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh

nauk, 1960, No. 2, pp. 244 - 250

TEXT: The following substances were investigated: (CH3)3Si-C),

 $c_1 - Sic_{13}$ ,  $c_{13}Si - C_{13}Si - C_$ 

The halogenation reactions were performed both with and without iron dust catalysts. The resultant products were identified by synthesizing them also by another method and by comparing the Raman spectra. The syntheses and the halogenation of the compounds mentioned are described in detail in the experimental part of the paper. Results: On chlorination of

Card 1/3

birection of the Union ation of Brownhadien S/062/60/000/02/06/012 of Phenyl Silanes Containing SiF, and B003/B066
Si(CH<sub>3</sub>)<sub>3</sub> Groups

in the presence of metallic iron, the (CH<sub>3</sub>)<sub>3</sub>Si group proves to be directed toward the ortho- and para-positions. Substitution of the more electronegative chlorine or fluorine for the CH<sub>3</sub> groups bound to the Si-atom gives substitutions in the meta-position. The chlorination of Cl<sub>3</sub>Si or Cl SiCl<sub>3</sub> to dichlorides yields a mixture of reaction products under the given conditions. On photochemical chlorination of (CH<sub>3</sub>)<sub>3</sub>Si in the absence of iron dust only the H-atoms at the CH<sub>3</sub> groups are substituted, whereas the phenyl radical remains unchanged. Contrary to the trichloro silyl group, the F<sub>3</sub>Si group and other groups which are directly linked by the Si-atom to the aromatic ring are rather easily split from the ring on chlorination or bromination. This behavior is apparently due to the steric or inductive effect caused by the substituents on the Si-atom and to the course of the reaction according

Card 2/3

Direction of the Chlorination and Bromination S/062/60/000/02/06/012 of Phenyl Silanes Containing  $SiF_3$  and Si(CH<sub>3</sub>)<sub>3</sub> Groups

B003/B066

to the ionic mechanism. There are 1 figure, 1 table, and 8 references:

ASSOCIATION: Institut organicheskoy khimii im. M. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni M. D. Zelinskiy of the Academy of Sciences USSR)

SUBMITTED: July 12, 1958 (initially)

November 21, 1959 (after revision)

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Card 3/3

MAYRANOVSKIY, S.G.; PONOMARENKO, V.A.; BARASHKOVA, N.V.; SNEGOVA, A.D.

Polarographic study of iodomethyltrialkylsilanes. Unusual polarographic maximum on the iodomethylphenyldimethylsilane. Dokl.AN SSSR 134 no.2:387-390 S '60. (MIRA 13:9)

1. Institut organicheskoy khimii im. N.D.Zelinskogo Akademii nauk SSSR. Predstavleno akademikom A.A.Balandinym. (Silane)

86395

5.3700

2209

S/020/60/135/002/022/036 B016/B052

AUTHORS:

Ponomarenko, V. A., <u>Snegova, A. D.</u>, Pitina, M. R., and Petrov, A. D., Corresponding Member of the AS USSR

TITLE:

High-temperature Chlorination of Phenyl Trichlorosilane

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol. 135, No. 2,

pp. 339 - 341

TEXT: The authors report on high-temperature chlorination (200-500°C) of phenyl trichlorosilane. This reaction has not been described so far. The principal aim of their work was to study the possibility of using a continuous process and determine the quantitative proportion of the ortho-, meta-, and para-isomers formed. The first experiments made in a tube filled with quartz, gave a 19% yield of monochloro derivatives referred to the amount of initial substance passed through, or a 58% yield referred to the reacting phenyl trichlorosilane. The quantitative proportion of the isomers obtained is given as o-: m-: p- = 22:39:39. This indicates that the meta-orientating property of the SiCl<sub>3</sub> group

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86395

High-temperature Chlorination of Phenyl Trichlorosilane

S/020/60/135/002/022/036 B016/B052

(Ref.2) has no effect. The amount of the meta-isomer in the mixture hardly changes with an increase of temperature up to 450°C, although the quantitative proportion of ortho- and para-isomers changes in favor of ortho-chlorophenyl trichlorosilane. The application of activated carbon instead of quartz hardly affects the quantitative proportion of the isomers at equal temperatures, although the reaction sets in at lower temperatures and is accompanied by a slight destruction of phenyl trichlorosilane on the Si-C bond. Furthermore, it is shown that dimethyl dichlorosilane mixed with SiCl is easily chlorinated on both activated

carbon and quartz at 250-400°C. In all cases, a considerable cleavage of the Si-C bond took place, and di- and trichlorides were formed. High-temperature chlorination is thought to be a homolytic reaction, and the changed quantitative proportion of the isomers (like in high-temperature halogenation of chloro- and bromobenzenes) is due to the temperature-dependent change of activation energy in the chlorination of the various positions on the benzene ring. There are 2 tables and 8 references: 4 Soviet, 3 US, 1 British, and 1 Dutch.

SUBMITTED: August 11, 1960

Card 2/2

SNEGOVA, A. D., Cand. Chem. Sci. (diss) "Synthesis and Properties of Halogen-Containing of Cilicon-Organic Compounds," Moscow, 1961, 15 pp (Moscow Chem. Engr. Instit.) 175 copies (KL Supp 12-61, 256-257).

SOBOLEVSKIY, M.V.; RODZEVICH, N.Ye.; GRINEVICH, K.P.; FETROV, A.D.; PONOMARENKO, V.A.; SNEGOVA, A.D.

Preparation and properties of organosiloxanes containing hexachlorobicycloheptenyl radicals. Zhur.prikl.khim. 35 no.10:2302-2307 0 '62. (MIRA 15:12) (Silicon organic compounds)

SHEGOVA, A.D.; MARKOV, L.K.; POHOMARENKO, V.A.

Use of gas-liquid chromatography in the analysis of halogen-containing organosilicon and organogermanium compounds. Zhur. anal. khim. 19 no.5:610-614 164. (MIRA 17:8)

1. Institut organicheskoy khimii AN SSUR imeni Zelinskogo, Moskva.

PONOMARENKO, V.A.; SNEGOVA, A.D.; SFIGEYEV, I.A.

Preparation of fluoroarylhalosilanes by high temperature
condensation. Izv. AN SSSR. Ser. khim. no.9:1684-1687 (MIRA 18:9)

1. Institut organicheskoy knimii im. N.D. Zelinskogo AN SSSR.

MOTSAREV, G.N., JEKTHOVICH, A.Ya.; POHOMARENKO, V.A.; SNEGOVA, A.D.;
IVAN E. T.H.

Substitution enformation of phenyltrichlorosilans. Zhur. ob. khim.
35 n.s.1756-757 Ap 165. (MIRA 18:5)

MOTHARDV, G.V.: YARUBONICH, A.Ya., FONOMARENKO, V.A.: SNEGOVA, A.D., IVANOVA, T.M.

Substitution chlorisation of phenyltrichlorostians. Zhur.ob.khim.
35 no.12:2167-2176 D 465.

1. Substituted July E, 1964.

SNEGOVOY, V., zasluzhennyy zootekhnik RSFSR (Stavropol'skiy kray,
sovkhôz "Sovetskoye runo").

Lambs are born during the winter. IUn. nat. no.6:15 \$ '56.
(MLRA 9:10)

(Lambs)

ACC NR: AP6022517

SOURCE CODE: UR/0391/66/000/007/0013/0017

AUTHOR: Drogichina, E. A. (Moscow); Sadchikova, M. N. (Moscow); Snegova, G. V. (Moscow); Konchalovskaya, N. M. (Moscow); Glotova, K. V. (Moscow)

ORG: Institute of Industrial Hygiene and Occupational Diseases, AMN SSSR (Institut gigiyeny truda i profzabolevaniy AMN SSSR)

TITLE: The problem of autonomic and cardiovascular disorders during the chronic action of SHF electromagnetic fields

Cigiyena truda i professional'nyye zabolevaniya, no. 7, 1966, 13-17

TOPIC TACS: hemodynamics, human physiology, SHF, industrial hygiene, central nervous system, cardiovascular system

ABSTRACT: The authors examined 100 subjects (73 men and 27 women aged 21-40) over a period of 10 years. These personnel had been chronically exposed to the influence of microwaves (intensity up to a few mw/cm2) and showed some pathologies. Light asthenic and autonomic vascular shifts were characteristic in 39 subjects with initial stages of microwave pathology. Pathological deviations in cardiac function were not noted in these subjects. Of 61 subjects with moderate and pronounced microwave symptoms, the angiodystonic syndrome and pronounced instability of autonomic vascular reactions (predominant hyperreactivity, pulse and arterial pressure lability) were

Card 1/2

UDC: 613.647+617-001.21:583.3]-036.12:[616.839+616.1

L 35864--66

ACC NR: AP6022517

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noted. Tachycardia was detected in 16 subjects (90 beats/min or more), and brady-cardia in 19 (about 60 beats/min). Capillaroscopy revealed a tendency towards atonic spasm. Constriction of the retinal artery was also noted. The majority of subjects complained of pain in the cardiac region. Most of the changes observed were unstable and with few exceptions disappeared after 1—2 weeks. Two case histories of coronary patients who had been chronically exposed to SHF are presented. In general, these observations showed that upon treatment and release from exposure conditions, functional changes in the nervous system steadily decreased. Autonomic vascular changes were the most persistent symptoms of chronic exposure to SHF. Otherwise, angiodystonic manifestations coupled with EKG changes were pronounced for 2—3 years after curtailment of work around SHF sources. Thus, clinical observations of subjects chronically exposed to SHF indicate that angiodystonic pathology can eventually aggravate the development of more severe autonomic and cardiovascular pathology. A pronounced SHF effect is characterized by angiodystonic disorders, diencephalic disturbances, and coronary spasms. Orig. art. has: 2 figures.

SUB CODE: 06/ SUBM DATE: 13Jan66/ ORIG REF: 002/ ATD PRESS: 50 37

Card 2/2 ///~

Cara -1- 1517

SNEGOVSKIY, F. P. Cand Tech Sci -- (diss) " Study of the Operating Characteristics of Liquid Fraction Bearings of Rolling Mills." Mos, 1956x 1957. 20 pp, 1 sheet of diagrams, 20 cm. (Min of Heavy Machine Building USSR, Central Scientific Research Inst of Technology and Machine Building TsNIITMash), 100 copies (KL, 18-57, 96)

- 32 -

SNEGOVSKIY, F.P., inzhener.

Investigation of the working characteristics of 'sliding friction bearings. Vest.TSNII MPS no.2°35-38 Mr '57. (MLRA 10:4)

(Bearings (Machinery))

122-3-5/30

AUTHOR: Al'shits, 1.Ya., Candidate of Technical Sciences and

Snegovskiy, F.P., Engineer.

TITLE: The Use of Fluid Friction Bearings Faced with Textile Waste in Rolling Mills (Primeneniye oblitsovannykh tekstíl'noy

**建筑建筑,在1998年,在1998年,1998年,1998年,1998年,1998年,1998年,1998年,1998年,1998年,1998年,1998年**,1998年,19

kroshkov podshipnikov zhidkostnogo treniya v prekatnykh stanakh)

PERIODICAL: Vestnik Mashincstroyeniya, 1957, No. 3, pp. 20-23 (USSR)

In recent years, in some rolling mills of the "Krasnyy Vyborzhets" plant, the bronze and UAM 10-5 alloy sleeves of the roll bearings were replaced by steel bearing liners faced with a thin layer of textile waste, resulting in a reduction of the power consumption and an increased load capacity; the number of passes and the output of the rolling mill could be increased by 40%. Tests carried out in the bearing and lubricating laboratory of the TsNIITMASh Institute with textile waste faced bearing liners lubricated with water or oil established the equivalence of such facings with those of cloth or wood laminated plastic materials. An excessive deformation was found, however, and some cracks developed. Further tests are reported in the present paper. The facing material was textile waste impregnated with bakelite lacquer and pressed into briquettes at a specific pressure of 30-40 kg/cm2. The briquettes are placed in a thick-Cardl/3 walled hopper cylinder heated by an electrical resistance wil

CIA-RDP86-00513R001651810008-1"

APPROVED FOR RELEASE: 08/25/2000

The Use of Fluid Friction Bearings Faced with Textile Waste in Rolling Mills.

under a pressure of 6 kg/cm<sup>2</sup>. The softened mass is injected through a hole into the clearance between the bearing sleeve placed inside another heated cylinder and a special internal core forming part of the mould. During injection, the pressure in the clearance reaches 400 kg/cm<sup>2</sup>. At a temperature of 150 -C, polymerisation of the bakelite lacquer is achieved after about 20 minutes. The test rig for the bearing liner was designed for bearings of 180 mm dia. and a length to diameter ratio of 0.75. Bearing pressures of up to 200 kg/cm and sliding speeds of up to 10 m/sec could be reached. The test rig is illustrated and a diagram of the lubrication system is shown. The working cortion of the test rig consists of a short stepped shaft of which the thick portion runs in the tested bearing. The shaft is supported by self-aligning barrel roller bearings. The tested bearing is inserted in a loaded block with means for bearing lubrication. The cil pressure was held at 0.5 kg/cm; the cil entry temperature at 30 C. The temperature of the cil layer In the bearing was measured by a thermocouple. The friction coefficient and the bearing load were measured, the latter by means of strain gauge load capsules. Graphs of friction Udid2/3 coefficient against bearing load at different speeds and against

Snegovskiy, F.P., Engineer. AUTHOR:

122-4-2/29

TITIE:

Analysis of oil flow through fluid friction bearings (applicable to rolling mills). (Raschet prokachki masla cherez podshipniki zhidkostnogo treniya)

"Vestnik Mashinostroeniya" (Engineering Journal), 1957, PERIODICAL:

No.4, pp. 10 - 19 (U.S.S.R.)

Tests carried out by the TsNIITMASh Institute in various Soviet rolling mills between 1953 and 1956 on the lubricating ABSTRACT: oil through-put of roll bearings are reported. The loads were kept constant in magnitude and direction. The contours of bearing clearances and of oil pressures around the pin were obtained from measurements. The bearing clearance was measured by the condenser method, the oil thickness acting as the insulator between the earth of the bearing sleeve and an insulated electrode attached to the pin. A special amplifier working on the capacitor principle was developed for this purpose. Pressures were measured by capsules attached to the pin which transformed the pressure into the electrical signal of a resistance wire strain gauge. Measurements carried out on a journal of 180 mm dia., a length of 3/4 dia., and a relative clearance 1/3 of 0.25% with circulating machine oil, at various specific loads of 25-100 kg/cm and speeds of 1-11 m/sec show minimum

Analysis of oil flow through fluid friction bearings (applicable to rolling mills). (Cont.) 122-4-2/29 oil film thicknesses between 2 and 8 microns and an arc of carrying oil film from 95 down to 65 at the highest load. The friction coefficients range between 0.0017 and 0.0024. Comparison of the experimental values with those calculated in accordance with E.S. Kodnir (Abanov, L.V., Al'shits, I.Ya., Kodnir, D.S. et al. "Fluid friction bearings for rolling mills", Mashgiz, 1956.) shows that the calculated clearance values are between 1.88 and 3.7 times greater than the measured values. The measured relative eccentricity in the bearing is always greater than the calculated and amounted to no less than 0.965. An oscillographic record of the pressure distribution over the angle is reproduced showing a maximum pressure 2.56 times the mean pressure. Confirming the tests of Parish (Orlov, P.I. "The lubrication of light engines", ONTI, 1937), the circulation of all through the end of the bearing is relatively small and can be computed on the assumption of flow caused only by the supply pressure of the oil. From the present tests, expressions are developed for the through-put of oil. The total through-rut expression contains coefficients which are 2/3 computed and presented in graphs. A parameter is formulated which represents the oil through-put capacity of the bearing

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651810008-1"

Snegolishill. Fire

32-11-43/60

AUTHORS:

Al'shits, I.Ya., Malykh, L.I., Snegovskiy, F.P.

TITLE:

Devices for Testing the Friction Bearings and the Anti-Friction Properties of Materials (Ustanovki dlya ispytaniya podshipnikov skol'sheniya i antifriksionnykh svoystv materialov)

PERIODICAL: Zavodskaya Laboratoriya, 1957, Vol. 23, Nr 11, pp. 1380-1383 (USSR)

ABSTRACT:

In this paper 2 such devices are described and their operation is explained. According to the scheme mentioned, the first of these devices consists of a firmly mounted frame with 2 bearings in which a shaft moves in 2 bearings in a horizontal position). On this shaft, in the center of the frame, a conical sleeve is mounted, above which the third bearing is located, which is not fixed but can be moved downwards by means of a lever system. The other end of this lever is provided with a hard spiral which can be tightened by hand by means of a winged nut or by means of a motor, which can be recorded on the scale at the end of the spiral. Pressure brought to bear upon this spring causes traction to act upon the bearing in the center of the frame. Into this bearing samples of the substance to be tested are inserted. The aforementioned shaft is connected with another shaft by means of an elastic coupling, upon which the (freely mounted) reaction motor is located. It is connected with the base plate by means of a draw spring. The centrifugal force

Card 1/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651810008-1"

Devices for Testing the Friction Bearings and the Anti-Friction Properties of Materials 32-11-43/60

of the motor causes the spring to be strained, which can be seen from the reading of a corresponding scale. The motor shaft is firmly mounted on the base plate by 2 bearings in 2 solid brackets. The machine is of the "LTC" type and has a special lubrication system. The second test suggested here is used for testing bearings of 180-275 mm diameter up to a pressure stress of 200 kg/cm<sup>2</sup> and 15 m/sec. The bearing part under investigation in this case is of box shape. The horisontal shaft of the testing device is connected with the motor shaft by means of an elastic coupling and has a conically widened part in its middle part over which the box to be tested is placed. The shaft itself is firmly mounted in 2 solid bearings; the middle bearing is movable in a vertical direction, and while in operation it is pressed upwards by a strong vertical propeller shaft. The motion of the latter is caused by hand by means of a lever and a pair of bevelled gears. As this shaft operates only on a very short stretch because of the pressure exercised on the bearing to be tested, this work can easily be performed by hand. Exact technical data are given. There are 3 figures.

ASSOCIATION:

Central Scientific Research Institute for Technology and Machine Building (Teentral) may payable right addressed laking institute takken logic in

ing (Tsentral'nyy nauchno-issledovatel'skiy institut tekhnologii i

mashinostroyeniya)

AVAILABLE: Card 2/2 Library of Congress

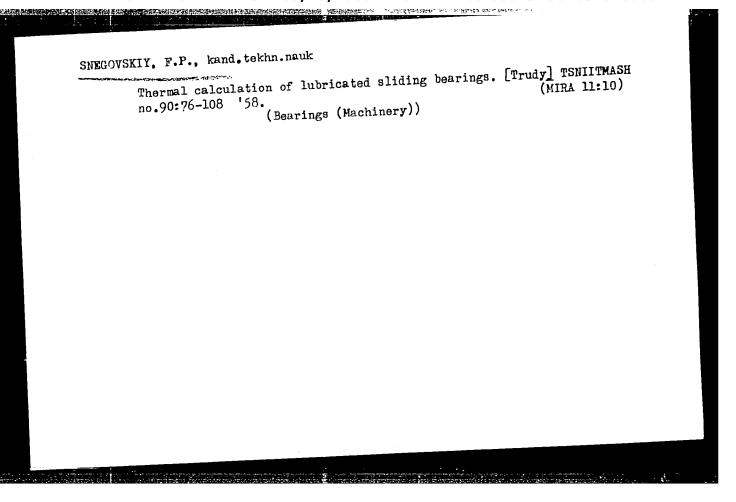
SNEGOVSKIY, F.P., inzh.

Thermal calculation of sliding fluid friction bearings (applicable to rolling mills). Vest. mash. 37 no.8:15-20 Ag 157. (MLRA 10:9) (Bearings (Machinery)) (Rolling mills)

SNEGOVSKIY, F.P., kand.tekhn.nauk

Sperimental determination of hydrodynamic pressures and thicknesses
of lubricant layers in lubricated sliding bearings. [Trudy] TSHIITMASH
no.90:48-75 '58.

(Lubrication and lubricants) (Bearings (Machinery))



sov/122-59-3-6/42

Snegovskiy F.P., Candidate of Technical Sciences Tests on Sliding Bearings with Fluid Friction (Ispytaniya AUTHOR:

podshipnikov skol zheniya zhidkostnogo treniya) TITLE:

PERIODICAL: Vestnik Mashinostroyeniya, 1959, Nr 3, pp 23-25 (USSR)

ABSTRACT: Tests on bearings with aluminium, iron or bronze (Br.AZh 9-4) inserts to determine the true friction coefficients and establish the condition of fluid friction

were carried out on a test-stand, described by Al'shits, I.Ya. et al (Zavodskaya Laboratoriya, 1957, Nr 11). The bearings had a nominal diameter of 120 mm, relative clearances of 0.00256 and 0.00220 and a relative length (both referred to the diameter) of 0.75. bronze sleeve and steel journal were machined to the 8th grade of surface finish. MK-22 oil was used for lubrication. Within a range of surface speeds of 2.5-6 m/sec and specific pressures up to 50 kg/cm<sup>2</sup>, fluid friction with coefficients of 0.001-0.0046 was observed. Fig 1 shows that the oil flow depends linearly on the oil pressure before the bearing. The oil flow, friction

coefficient and mean insert temperature at a depth of 0.5-1 mm depend linearly on the journal surface speed Card 1/3

SOV/122-59-3-6/42

Tests on Sliding Bearings with Fluid Friction (Fig 4). There is an optimum oil flow which ensures the continuity of the oil film without excessive friction coefficient. Bearings with babbit metal inserts (made by the "Elektrostal'tyazhmashzavod" Works) of 180 mm diameter, 0.75 relative length, 0.00255 relative clearance, were tested in a specific load region of 0.5-100 kg/cm<sup>2</sup> and at surface speeds of 1 - 11 m/sec. Additional tests were made with a relative clearance of 0.00122 and The tests are also with a bearing diameter of 275 mm. summarised in a plot of the ratio of the friction coefficient and the rel ative clearance as a function of the non-dimensional load (the total load multiplied by the square of the relative clearance and divided by the bearing length and the viscosity). This plot, illustrated in Fig 3, characterises the behaviour of the bearing. It is emphasised that increasing the oil flow also increases the coefficient of friction in contrast with theoretical predictions. Thus, under the same conditions, an oil flow of 0.1 l/min is associated with a coefficient Card 2/3 of 0.0015; an oil flow of 5.6 1/min, with a coefficient

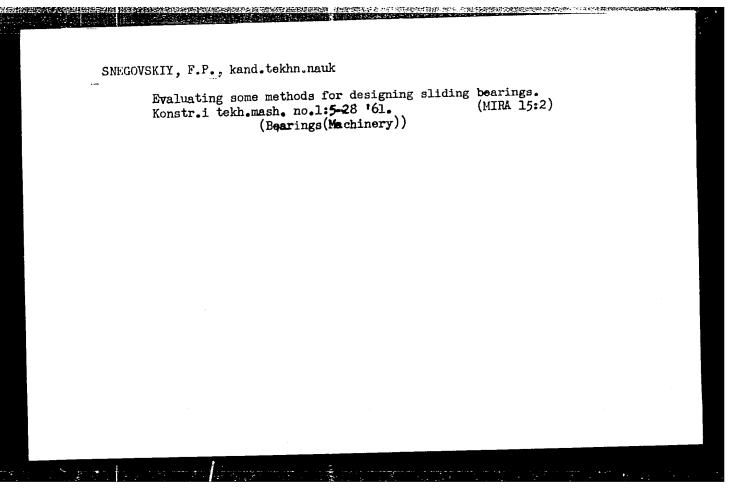
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SOV/122-59-3-6/42

Tests on Sliding Bearings with Fluid Friction

of 0.0028. This dependence is far less pronounced in theory. The experimental coefficients of friction exceed the theoretical by a factor of 3, except at the highest (non-dimensional) load. There are 3 figures and 5 Soviet references.

Card 3/3



SNEGOVSKIY, F.F., kand.tekhn.nauk

Coefficient of friction and Hersey diagram for fluid-friction sliding bearings. Konsur.i tekh.mash. no.1:29-35 '61.

(Bearings(Machinery))

(Bearings(Machinery))

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(Aluminum bronze)

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New materials used in friction units of machinery. Vest. mashinostr. 42 no.12:36-37 D '62. (MIRA 16:1)

(Machinery-Construction)

SNEGOVSKIY, F.P., kand.tekhn.nauk

Investigating liquid-friction bearings of rolling mills on stands with programmed loading. Vost.mashinostr. 43 no.3:27-30 Mr '69.

(MINA 16:3)

(Bearings (Machinery)—Testing)

Examine for testing friction materials for bearings. [av. lak. 30 not5:bla-ol6 'd4. (MIPA 17:5)

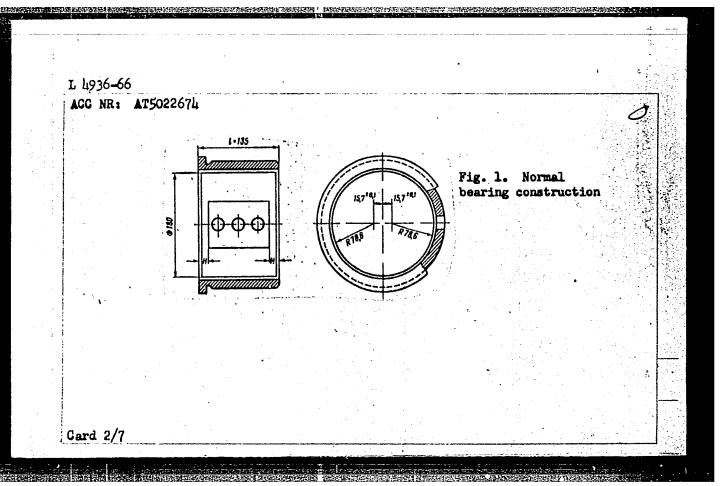
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ENGLAVALITY F.F., knrd.teshn.rauk; EUDSKIY, A.M., inch.

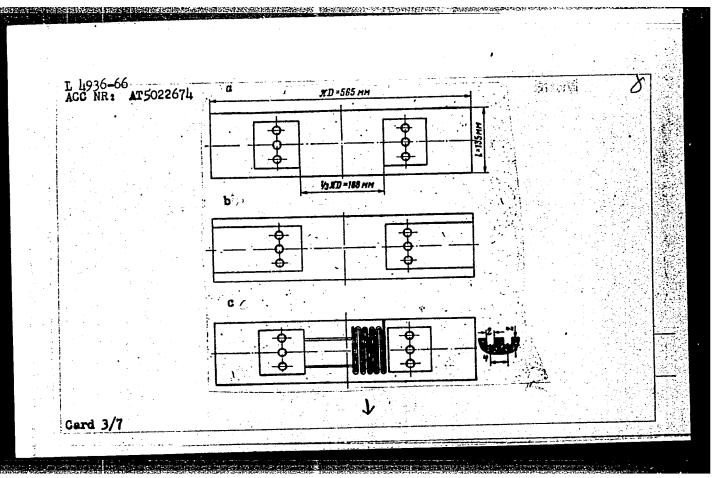
investigating the performance of packings of rotating shafts.

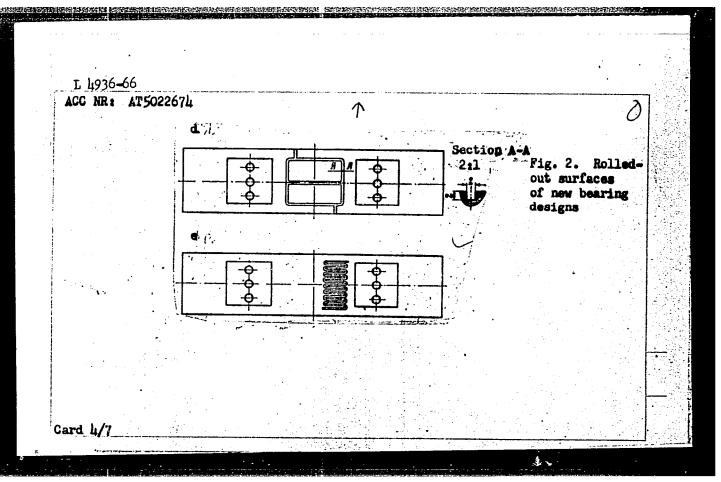
Vest. mashinostr. 44 no. 4:21-27 Ap \*64. (MIPA 17:5)

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TOPIC TAGS:	fluid bearing, hydr	odynamic bearing, hyd	rostatic bearing	
ABSTRACT: E	speriments were perf struction (see Fig. d improved designs w	ormed on 180- and 275 1) to determine load ere developed. After	capacity at speeds of obtaining preliminary	the
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Card 1/7			07	011539

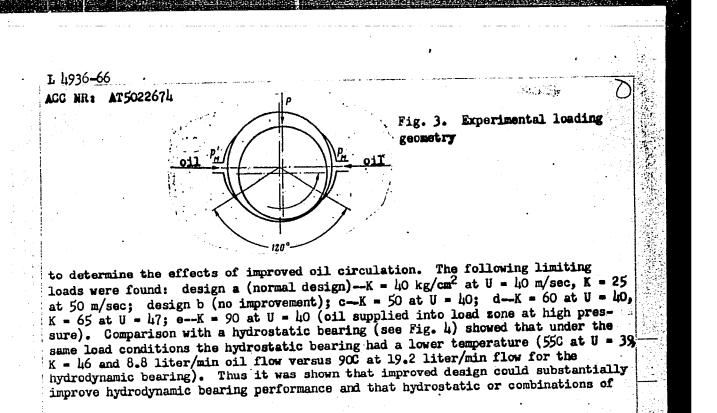


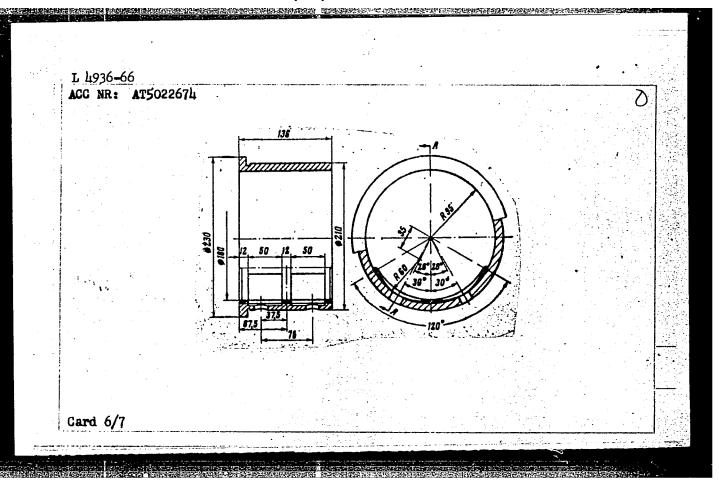
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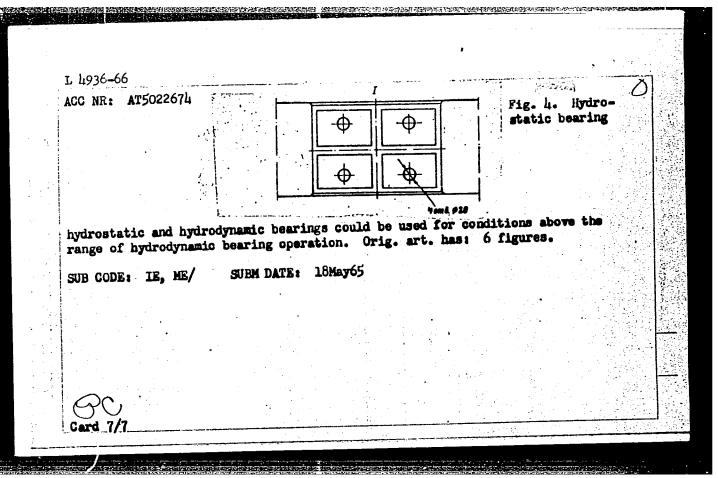




Card 5/7







CONTRACTOR

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